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In the claims:

Please amend the claims as follows:

1. (Currently Amended) A primary alkaline battery, comprising:

a cathode comprising greater than about 86% of a cathode active material by weight, a binder, and carbon fibers;

an anode;

a separator; and

an alkaline electrolyte,

wherein the cathode comprises less than about 5% of carbon fibers by weight.

2. (Cancelled)

- 3. (Original) The battery of claim 1, wherein the cathode comprises less than about 4% of carbon fibers by weight.
- 4. (Original) The battery of claim 1, wherein the cathode comprises less than about 3% of carbon fibers by weight.
- 5. (Original) The battery of claim 1, wherein the cathode comprises less than about 2% of carbon fibers by weight.
- 6. (Original) The battery of claim 1, wherein the cathode comprises between about 1% and about 5% of carbon fibers by weight.
- 7. (Original) The battery of claim 1, wherein the cathode comprises between about 2% and about 3% of carbon fibers by weight.
- 8. (Original) The battery of claim 1, wherein the cathode active material comprises manganese dioxide.



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9. (Cancelled)

10. (Original) The battery of claim 1, wherein the cathode comprises greater than about 88% of cathode active material by weight.

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- 11. (Original) The battery of claim 1, wherein the cathode comprises greater than about 90% of cathode active material by weight.
- 12. (Original) The battery of claim 1, wherein the cathode comprises greater than about 92% of cathode active material by weight.
- 13. (Original) The battery of claim 1, wherein the carbon fibers have a diameter less than about 250 nanometers.
- 14. (Original) The battery of claim 1, wherein the carbon fibers have a diameter between about 60 nanometers and about 100 nanometers.
- 15. (Original) The battery of claim 1, wherein the carbon fibers have a diameter less than about 60 nanometers.

16-18. (Cancelled)

- 19. (Original) The battery of claim 1, wherein the carbon fibers have a length less than about 2×10^5 nanometers.
- 20. (Original) The battery of claim 1, wherein the carbon fibers have a length between about 500 nanometers and about 200,000 nanometers.

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21. (Original) The battery of claim 1, wherein the carbon fibers have a length between about 70,000 nanometers and about 100,000 nanometers.

- 22. (Original) The battery of claim 1, wherein the carbon fibers comprise between about 1 and about 500 layers of graphite.
 - 23. (Previously Amended) A primary alkaline battery, comprising:
 a cathode comprising a cathode active material and carbon fibers;
 an anode;
 a separator; and
 an alkaline electrolyte,
 wherein the carbon fibers comprise between about 40 and about 100 layers of graphite.
- 24. (Original) The battery of claim 1, wherein the carbon fibers have an external surface area between about $10\text{m}^2/\text{g}$ and about $50\text{ m}^2/\text{g}$.
- 25. (Previously Amended) A primary alkaline battery, comprising:
 a cathode comprising a cathode active material and carbon fibers;
 an anode;
 a separator; and
 an alkaline electrolyte,
 wherein the carbon fibers have a surface energy between about 50 mJ/m² and about 300 mJ/m².
 - 26. (Previously Amended) A primary alkaline battery, comprising: a cathode comprising a cathode active material and carbon fibers; an anode; a separator; and an alkaline electrolyte, wherein the carbon fibers have a graphitic index of less than about 85%.

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27. (Original) The battery of claim 1, wherein the carbon fibers have a length equal to or greater than an average particle size of the cathode active material.

- 28. (Original) The battery of claim 1, wherein the cathode further comprises a surfactant.
- 29. (Original) The battery of claim 28, wherein the surfactant is selected from a group consisting of polyvinyl alcohol, ethylene-vinyl alcohol, and polyvinylbutyrol.
- 30. (Original) The battery of claim 1, wherein the anode comprises zinc as an anode active material.
- 31. (Currently Amended) A primary alkaline battery, comprising:
 a cathode comprising at least about 86% of manganese dioxide by weight, a binder, and a
 heat-treated carbon fiber having a diameter less than about 250 nanometers;

an anode;

a separator; and

an alkaline electrolyte.

- 32. (Original) The battery of claim 31, wherein the cathode comprises between about 1% and about 5% of carbon fibers by weight.
- 33. (Original) The battery of claim 31, wherein the cathode comprises between about 2% and about 3% of carbon fibers by weight.
- 34. (Original) The battery of claim 31, wherein the cathode has an electrical conductivity at least 3 times greater than a cathode having about 6% of graphite.
 - 35. (Previously Amended) A primary alkaline battery, comprising:



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a cathode comprising a cathode active material, a binder, and carbon fibers;

an anode;

a separator; and

an alkaline electrolyte,

wherein the cathode comprises greater than about 86% of the cathode active material by weight.

36. (Previously Added) The battery of claim 35, wherein the cathode comprises manganese dioxide.

- 37. (Previously Added) The battery of claim 1, wherein the binder comprises a material selected from the group consisting of polyethylene, polyacrylamide, polytetrafluoroethylene, and polyvinylidenefluoride.
- 38. (Previously Added) The battery of claim 1, wherein the cathode comprises between 0.1% to about 1% by weight of the binder.
- 39. (Currently Amended) A primary alkaline battery, comprising:
 a cathode comprising greater than about 86% of a cathode active material by weight and
 less than about 5% of carbon by weight, the carbon comprising carbon fibers;

an anode;

a separator; and

an alkaline electrolyte.

- 40. (Previously Added) The battery of claim 39, wherein the cathode further comprises a binder.
- 41. (Currently Amended) A primary alkaline battery, comprising:
 a cathode comprising a cathode active material manganese dioxide and carbon, the carbon consisting of carbon fibers;

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an anode;

a separator; and

an alkaline electrolyte.

42. (Previously Added) The battery of claim 41, wherein the cathode includes less than about 5% of carbon by weight.

43. (Previously Added) The battery of claim 41, wherein the cathode further comprises a binder.

44. (New) A primary alkaline battery, comprising:

a cathode comprising greater than about 86% of a cathode active material by weight and less than 5% by weight of a conductive aid comprising a carbon material;

an anode;

a separator; and

an alkaline electrolyte.